| > G            |                 |           |           |  |           |                 |                          |  |                    |          |          |              |                 | itio            | tion No.  |           |          |           |          |          |            |             | Applicant(s)     |          |   |              |                         |         |          |          |
|----------------|-----------------|-----------|-----------|--|-----------|-----------------|--------------------------|--|--------------------|----------|----------|--------------|-----------------|-----------------|-----------|-----------|----------|-----------|----------|----------|------------|-------------|------------------|----------|---|--------------|-------------------------|---------|----------|----------|
| 1              | Index of Claims |           |           |  |           |                 |                          |  |                    |          |          |              |                 |                 |           |           |          |           |          |          |            |             |                  |          |   |              |                         |         |          |          |
|                |                 |           |           |  |           |                 |                          |  |                    |          |          |              | 10/824,424      |                 |           |           |          |           |          |          |            |             | WILLARD, DOUGLAS |          |   |              |                         |         |          |          |
|                |                 |           |           |  |           |                 |                          |  |                    |          |          |              | Examiner        |                 |           |           |          |           |          |          |            | Art Unit    |                  |          |   |              |                         |         |          |          |
|                |                 |           |           |  |           |                 |                          |  |                    |          |          |              |                 | David I Bassley |           |           |          |           |          |          |            |             |                  |          |   |              |                         |         |          |          |
|                | David J Parsley |           |           |  |           |                 |                          |  |                    |          |          |              |                 |                 |           |           |          |           |          | 3643     |            |             |                  |          |   | _            |                         |         |          |          |
| _              |                 |           |           |  |           |                 |                          |  |                    |          |          |              |                 |                 |           |           | ٦ .      |           |          |          | _          |             |                  | _        |   |              |                         |         |          |          |
| 1              | ١               | Rejec     | ctec      | l te   |           | _               | (Through numer Cancelled |  |                    |          |          |              |                 |                 |           |           | Non-Ele  |           |          | ected    |            |             | Appeal           |          |   |              |                         |         |          |          |
| <u>[</u>       | 1               |           |           | _  |           |                 | Cancelled                |  |                    |          |          |              | _               |                 | N         |           |          |           |          | ]        | A          | . 7702.     |                  |          |   |              | ╛                       |         |          |          |
| -              |                 | Allov     | wad       | .  |           |                 | + Restricted             |  |                    |          |          |              |                 |                 | ,         | Interfere |          |           |          |          | 0          | Objected    |                  |          |   |              | 1                       |         |          |          |
| -              | Ί               | A0101     | TOU       |  |           | - Idealiciad    |                          |  |                    |          |          |              |                 | ۱'              | 181       | ler       | IGLE     | mce       |          | ٥        |            | U           | jec              | STOC     | 3   |              |                         |         |          |          |
| ,              | _               |           |           | _  |           | $\equiv$        | =                        | <u> </u>                                   |                    |          |          |              | _               |                 |           |           |          |           | _        |          |            |             |                  |          |   |              |                         |         |          | _        |
| Claim          | 4               |           | <u>Da</u> | ate  | _         | <del></del>     | ها                       | 1 }  | Claim              |          |          |              |                 |                 | Date      |           |          | 4         | _ C      | laim     | Щ          | <del></del> |                  |          | ate   | _            |                         |         | ]        |          |
| Final Original | 3               |           | -         |  |           |                 | 1 )                      |  | -                  | 쿋        |          |              |                 | П               | il        |           |          |           | -        | _        | <u>ā</u>   | П           |                  | -        | -1  | ı            |                         | ı       | 1        | 1        |
| Final Original | 4               |           | ı         |  |           |                 |                          |  | Finat              | Original |          | 1            |                 |                 | ıİ        |           |          |           | -        | Final    | Original   | Ш           | - 1              |          | -1  | -            |                         |         | 1        | ŀ        |
|                | ١               |           |           |  |           |                 |                          |  | _                  | ō        |          |              |                 |                 |           |           |          | -         |          | "        | ٥          |             | ı                |          | - 1   |              | ı                       |         | 1        |          |
| <b>O</b> Y     | Ι               | $\Box$    | $\Box$    | I  | I         |                 | $\Box$                   |  |                    | 51       | 匚        |              |                 |                 |           | コ         | コ        | ユ         | 1        |          | 101        |             | $\dashv$         | 寸        | 十   | 十            | 十                       | 十       | †        | 1        |
| 2 1            | 4               | $\dashv$  | 4         | +  | 丰         | $\sqcup$        | Ш                        | -  | $\Box$             | 52       | ╄        | L            | Ш               | Ш               | $\Box$    | コ         | $\dashv$ | $\supset$ | 4        |          | 102        |             | $\Box$           | $\Box$   | $\Box$  | ightharpoons | I                       | I       | I        | ]        |
| 4 7            | 扌               |           |           | +  | ╀         | Н               | Н                        | -  |                    | 53       | ₩        | ├            | Н               | $\vdash$        | -         | 4         | 4        | 4         | 4        | <b> </b> | 103        | Н           | -                | $\dashv$ | 4   | 4            | 4                       | 4       | 丰        | 4        |
| 5 1            | ╁               | ╅┽        | ┽         | +  | 十         | Н               | Н                        | ╽┠   | $\dashv$           | 54<br>55 | ╆        | ₩            | Н               | Н               | $\dashv$  | ┵         | -+       | +         | ┨        | -        | 104        | Н           | $\dashv$         | +        | +   | -            | +                       | +       | ╄        | 4        |
|                | +               | $\dashv$  | +         | 十  | 十         | Н               | М                        | F  | $\dashv$           | 56       | $\vdash$ | H            | Н               | H               | $\dashv$  | ᆉ         | 十        | 十         | $\dashv$ | -        | 105        | Н           | ╅                | ┿        | 十   | +            | +                       | ┿       | ╁        | 1        |
| 77             | 丰               |           |           | 1  |           | П               | П                        | -  -                                       | $\neg$             | 57       | ✝        | Н            | Н               | П               | $\neg$    | $\dashv$  | 十        | 十         | ٦.       | $\vdash$ | 107        | Н           | $\dashv$         | +        | 十   | +            | +                       | ╅       | ╁╴       | 1        |
| 8 ~            | 1               | $\Box$    | $\Box$    | 工  | oxdot     |                 |                          |  |                    | 58       |          | 匚            |                 |                 | $\Box$    | $\Box$    | コ        | 工         | J        |          | 108        |             | $\exists$        | 士        | $\top$  | $\top$       | 十                       | 十       | †        | 1        |
| 9 4            | 4               |           | +         | 4  | 丰         | Ш               | Ш                        | l L  |                    | 59       | ┺        | L            | Ц               |                 | $\dashv$  | $\dashv$  | <b>긔</b> | $\bot$    | _        |          | 109        |             | $\Box$           | $\Box$   | $\Box$  | $\bot$       | $oldsymbol{\perp}$      | I       | I        |          |
| 10 11 1        | 4               | +         | -         | +  | ╄         | Н               | Н                        | ıŀ   | $\dashv$           | 60       | ╄        | <del> </del> | Н               | $\vdash \vdash$ | +         | $\dashv$  | $\dashv$ | +         | 4        | <u></u>  | 110        | Щ           | 4                | 4        | 4   | 4            | $\bot$                  | $\bot$  | 丄        | 1        |
| 12 7           | _               | ++        | ╌┼╴       | ╁  | ╀         | Н               | Н                        | -  | $\dashv$           | 61<br>62 | ⊢        | ├            | $\vdash$        | $\vdash$        | $\dashv$  | $\dashv$  | +        | +         | -        | ⊢        | 111<br>112 | Н           | $\dashv$         | -+       | +   | +            | +                       | +       | ╀        | <b>∤</b> |
| 138            | t               | ++        | 十         | +  | +         | Н               | Н                        | ıŀ   | $\dashv$           | 63       | H        | ┢            | Н               |                 | $\dashv$  | +         | +        | +         | ┨        | $\vdash$ | 113        | Н           | +                | +        | 十   | +            | ╫                       | ╫       | +-       | {        |
| 14 🗸           | ıΤ              | $\Box$    | 士         | 1  |           | П               | $\neg$                   |  | 一                  | 64       |          | ┢            | М               |                 | す         | $\dashv$  | 十        | _         | ┪        | $\vdash$ | 114        | Н           | $\dashv$         | 1        | 十   | +            | 十                       | 十       | 十        | 1        |
| 15             | 4               | $\Box$    | $\Box$    | 工  | oxdot     |                 |                          |  | $\Box$             | 65       |          |              |                 | $\Box$          | $\Box$    | コ         | I        | $\Box$    | ]        |          | 115        | П           |                  | 士        | $\top$  | 士            | 士                       | $\top$  | 十        | 1        |
| 16             | 4               |           | 4         | +  | ╄         | Ш               |                          | L  | $\dashv$           | 66       | L        | <u> </u>     | Ц               | $\Box$          | $\dashv$  | $\dashv$  | $\dashv$ | 4         | 4        |          | 116        | П           | _[               | 1        | ightarrow   | $\perp$      | I                       | I       |          |          |
| 17             | ╄               | ╌┼        | ᆠ         | ┿  | ╀         | Н               | $\dashv$                 | ıŀ   | $\dashv$           | 67<br>68 | -        | $\vdash$     | $\vdash$        | ⊢⊢              | $\dashv$  | +         | 4        | +         | 4        | <b>—</b> | 117        | Н           | 4                | 4        | +   | +            | 4                       | _       | 丄        | 4        |
| 19             | t               | ++        | +         | +-   | ╁╴        | ┝╌┥             | $\dashv$                 | <i>i</i>                                   | $\dashv$           | 69       | $\vdash$ | -            | Н               | $\dashv$        | +         | $\dashv$  | ┰        | +         | ┨        | $\vdash$ | 118<br>119 | H           | ┽                |          | +   | +            | ┿                       | +       | ╁        | ł        |
| 20             | t               | ++        | 十         | 十  | T         | H               | T                        | ₊    ├                                     | $\neg$             | 70       | Н        | -            | H               | $\sqcap$        | 十         | 7         | 十        | 十         | 1        | $\vdash$ | 120        | H           | ╅                | ╅        | +   | 十            | 十                       | ┰┼      | ╁        | 1        |
| 21             | Ι               | oxdot     | 工         | I  | $\Box$    |                 | $\Box$                   | ıE   | $\overline{\cdot}$ | 71       |          |              |                 |                 |           | 士         | 士        | 士         | 7        |          | 121        | П           | 十                | 十        | 十   | 十            | 十                       | 十       | T        | 1        |
| 22             | Ļ               | 44        | 4         | $\bot$   | Ļ         | Ш               | _                        | Ļ  | <b>-</b>           | 72       | Ш        |              | Ц               | $\Box$          | $\dashv$  | $\Box$    | $\bot$   | $\bot$    | _        |          | 122        |             |                  | $\perp$  | $oldsymbol{ol}}}}}}}}}}}}}}}$ | m I          | $oldsymbol{\mathbb{T}}$ | 工       |          |          |
| 23             | ╀               | ++        | +         | +-   | ₽         | Н               | _                        | ,  |                    | 73       | Н        |              | Н               | $\dashv$        | 4         | 4         | 4        | +         | 4        |          | 123        | Ц           | 4                | 1        | 4   | $\bot$       | $\bot$                  | 工       | 匚        | 1        |
| 25             | ╁               | ++        | 十         | +  | ╂╾┦       | ┟╼┨             | $\dashv$                 | ŀ  | $\dashv$           | 74<br>75 | Н        | Н            | $\vdash \vdash$ | $\dashv$        | $\dashv$  | +         | +        | +         | -        | -        | 124<br>125 | Н           | -                | +        | +   | +            | +                       | -       | ╄        | 4        |
| 26             | t               | ++        | 十         | 十  | ₩         | Н               | $\dashv$                 | .  -                                       | $\dashv$           | 76       | Н        | Н            | ┝╌┧             | $\dashv$        | 十         | +         | 十        | +         | ┨        | $\vdash$ | 126        | Н           | +                | +        | +   | +            | +                       | ╌       | ╀        | 1        |
| 27             | Τ               | 廿         |           | $\top$   |           | П               | ヿ                        |  | $\dashv$           | 77       | П        | П            | П               | 寸               | 十         | 7         | 十        | 十         | 7        |          | 127        | H           | $\top$           | $\top$   | 十   | +            | 十                       | +       | $\vdash$ |          |
| 28             | Γ               | $\coprod$ | $\perp$   | $oldsymbol{oldsymbol{oldsymbol{oldsymbol{\Pi}}}$ |           | $\Box$          | $\Box$                   |  |                    | 78       |          |              |                 | コ               | 工         | $\Box$    | 土        | $\perp$   |          |          | 128        | Ħ           | 7                | Ť        | 十   | 十            | 十                       | +       | 十        |          |
| 29             | Ļ               | - - -     | 4         | $\bot$   | Ш         | Ц               | _                        | F  |                    | 79       |          | Ш            |                 | コ               | ユ         | ユ         | ユ        | I         |          |          | 129        |             | $\Box$           |          | I   | 工            | 工                       | 工       | 工        |          |
| 30             | ╀               | ++        | +         | ┼  | ₩         | $\vdash \vdash$ | $\dashv$                 | ŀ  | <del></del>        | 80       | Н        | Н            | Н               | 4               | 4         | 4         | +        | +         | 4        |          | 130        | $\dashv$    | 4                | 4        | 4   | 4            | 丰                       |         | Ŀ        | l        |
| 31 32          | ╀               | ╅         | +         | ╫  | Н         | Н               | -                        | -  | $\dashv$           | 81<br>82 | Н        | Н            | $\vdash \vdash$ | ┰               | +         | +         | +        | +         | -        | <b>—</b> | 131<br>132 |             | +                | 4        | +   | +            | +                       | +       | ╄        | ł        |
| 33             | t               | ++        | 十         | 十  | Н         | Н               | $\dashv$                 | ┢  |                    | 83       | $\vdash$ | Н            | $\dashv$        | ╅               | +         | +         | +        | ╁         | ┨        | -        | 133        | $\dashv$    | +                | ┿        | 十   | +            | 十                       | +-      | ⊬        | 1        |
| 34             | T               | ++        | 十         | +  | Н         | $\sqcap$        | ᅱ                        | F  | $\dashv$           | 84       | Н        |              | $\Box$          | 7               | 十         | 十         | +        | 十         | ┨        | $\vdash$ | 134        | -           | +                | +        | ┿   | +            | +                       | ┿       | ₩        |          |
| 35             | Γ               | П         | 工         | 工  | $\square$ | $\Box$          | ⊐                        |  |                    | 85       |          |              |                 | $\Box$          | $\Box$    | ユ         | 工        | I         |          |          | 135        |             | 丁                | 十        | 十   | 十            | +                       | +       | $\vdash$ |          |
| 36             | L               | $\dashv$  | $\bot$    | ┷  | Ш         | $\Box$          | <b>コ</b>                 | L  |                    | 86       | П        |              | $\Box$          | $\sqsupset$     | 工         | $\Box$    | 工        | I         | ]        |          | 136        |             | $\Box$           | 1        | I   | I            | I                       | $\perp$ |          |          |
| 37             | ╀               | ++        | +         | ┿  | ₩         | ⊢∔              | ᅱ                        | ┝  |                    | 87       | Н        | $\vdash$     | -               | $\dashv$        | +         | +         | +        | 4         | 4        | <u> </u> | 137        | Ц           | 4                | $\perp$  | $\bot$  | $\bot$       | T                       | T       | $\Box$   | l        |
| 38             | ⊦               | ┽┼        | +         | +-   | Н         | $\dashv$        | $\dashv$                 | ŀ  |                    | 88<br>89 | ┌┤       | $\vdash$     | -               | $\dashv$        | +         | +         | +        | +         | ┨        | $\vdash$ | 138<br>139 | -+          | +                | +        | +   | ┿            | +                       | +       | ₩        | ł        |
| 40             | H               | ++        | ╁         | +  | H         | $\dashv$        | ᅥ                        | ⊢  |                    | 90       | ┌┤       | $\dashv$     | $\dashv$        | $\dashv$        | 十         | +         | +        | ╁         | ┨        | -        | 140        | $\dashv$    | ┽                | +        | ╁   | ┿            | +                       | +       | $\vdash$ | ĺ        |
| 41             | T               | ++        | 十         | $\top$   | Н         | $\dashv$        | ヿ                        | <u>                                   </u> |                    | 91       | $\Box$   | ヿ            | $\dashv$        | 十               | 十         | 十         | 十        | ╅         | 1        | <b>—</b> | 141        | $\dashv$    | ┰                | +        | 十   | 十            | 十                       | 十       | Н        |          |
| 42             |                 | $\coprod$ | 工         | $\perp$  | П         |                 | コ                        |  |                    | 92       | $\Box$   |              | コ               | $\exists$       | 工         | 土         | 土        | $\perp$   | 1        |          | 142        | $\Box$      | 十                | 十        | 十   | 十            | +                       | +       | Н        | i        |
| 43             | L               | ++        | 4         | 1  | Ш         | $\dashv$        | ┛                        | L  |                    | 93       | $\Box$   | $\Box$       | $\sqsupset$     | $\Box$          | ightarrow | $\Box$    | I        | I         | ]        |          | 143        | $\Box$      | I                | I        | I   | I            | I                       | 工       |          | İ        |
| 44             | ⊢               | ++        | +         | <del> </del>                                     | Н         | $\dashv$        | 4                        | ┝  |                    | 94       | $\dashv$ | $\dashv$     | 4               | 4               | +         | 4         | 4        | +         | 4        | <u> </u> | 144        | _           | 4                | $\bot$   | +   | $\bot$       | $\perp$                 | $\bot$  |          | ĺ        |
| 45<br>46       | ⊢               | ++        | +-        | ╁┵   | ⋳         | $\dashv$        | $\dashv$                 | ┝  |                    | 95<br>96 | $\dashv$ | $\dashv$     | -+              | +               | +         | +         | ┿        | +         | 4        | <b> </b> | 145<br>146 | -           | +                | +        | +   | +            | ╄                       | ╀       | ┦        | 1        |
| 47             | H               | ++        | 十         | +  | H         | _               | ᅥ                        | ┢  |                    | 97       | $\dashv$ | $\dashv$     | $\dashv$        | 十               | +         | +         | +        | ╫         | ┨        | -        | 147        | -+          | +                | ┿        | ┿   | ╫            | ┿                       | +       | ₩        | 1        |
| 48             | Г               | $\top$    | 十         | $\top$   | H         | $\dashv$        | ヿ                        | ┢  |                    | 98       |          | 寸            | 寸               | 十               | 十         | 十         | 十        | 十         | ┪.       |          | 148        | 7           | +                | +        | 十   | 十            | 十                       | +       | Н        | 1        |
| 49             | L               | $\prod$   | 工         | $\Box$   | 口         | $\supset$       | $\Box$                   |  |                    | 99       | $\Box$   | コ            | コ               | ユ               | I         | I         | 工        | 工         |          |          | 149        |             | 士                | 丁        | 丁   | 士            | 工                       | 十       | Н        | ł        |
| 50             | Ĺ               |           |           |  | $\Box$    | $_{\perp}$ T    |                          |  |                    | 100      | Т        | Π            | T               | T               | Т         | T         | T        | Т         | 1        |          | 150        |             | 1                | 1        | Т   | 丁            | T                       | $\top$  | П        | i        |